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     2004444159 EMBASE
AN
     Involvement of inducible costimulator in the exaggerated memory B cell and
TI
     plasma cell generation in systemic lupus erythematosus.
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     Arthritis and Rheumatism, (2004) Vol. 50, No. 10, pp. 3211-3220. .
SO
     Refs: 42
     ISSN: 0004-3591 CODEN: ARHEAW
     United States
CY
     Journal; Article
DT
FS
             General Pathology and Pathological Anatomy
     005
     026
              Immunology, Serology and Transplantation
             Urology and Nephrology
     028
             Arthritis and Rheumatism
     031
LA
     English
     English
SL
     Entered STN: 12 Nov 2004
ED
     Last Updated on STN: 12 Nov 2004
AB
     Objective. In systemic lupus erythematosus (SLE), the increased
     generation of memory B cells and plasma cells leads to autoimmune
     hypergammaglobulinemia and destructive immunoglobulin deposits in the
     kidneys. We undertook this study to determine the biologic mechanism
     driving this overactivation of the B cell compartment, which is the
     central issue in SLE. Methods. We used flow cytometry to analyze
     expression of the T cell-specific inducible costimulator
     (ICOS) and its ligand (ICOS-L) on B cells obtained
     from the peripheral blood of SLE patients. We correlated ICOS-L
     expression with the differentiation status of the B cells using a large
     panel of surface antigens. In addition, SLE kidneys were analyzed by immunohistology. Results. We found an increased expression of ICOS on
     CD4+ as well as CD8+ T cells in SLE. At the same time, we documented a
     down-regulation of ICOS-L on a high proportion of peripheral blood memory
     B cells. Based on in vitro experiments, we inferred that this ICOS-L
     down-regulation on B cells was a signature of recent interaction with
     ICOS+ T cells in vivo. In the kidneys of SLE patients, we found clusters
     of B cells and plasma cells in close contact with ICOS+ T cells.
     Conclusion. Detailed analysis of B cells with down-regulated ICOS-L
     suggests that ICOS is one of the forces driving the formation of memory B
     cells and plasma cells in SLE. Furthermore, our identification of plasma cells in areas of T cell-B cell interaction in kidneys suggests that
     components of a T cell-driven B cell activation process may take place in
     peripheral tissues in SLE.
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L1
             27 S E2, E3, E4, E5
                 E LAWSON ALASTAIR/AU
             56 S E3, E4, E5, E6
L2
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             64 S L1 OR L2
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            998 S ICOS (S) ("INDUCIBLE COSTIMULATOR" OR "INDUCIBLE CO-STIMULATOR
L5
           1158 S CD134
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              9 S L4 AND L5
              '2 S L3 AND L4
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88 S ("CYTOPLASMIC SIGNALLING DOMAIN" OR "CYTOPLASMIC SIGNALLING S

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L11 1	S L5 AND L9		
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